

## **Montana Public Safety Microwave Network Circuit Mapping:**

**Motorola Trunking sites ;( 55 T1 Circuits)** the system provides T1 circuits to 55 Motorola Trunking Sites located throughout the state. Currently the Zone controllers located in Helena (Law Enforcement Center) and Sidney (Richland County Law Enforcement Building) require a T1 circuit to each site for Trunking Wide area control. Please see the PSCS Trunking Status Map for site locations.

The Trunking system currently has six sites that use a combination Microwave system and leased circuits. Three sites in Lincoln County have connectivity through Burlington Northern Santa Fe microwave and the connection to the PSCS microwave at the Big Mountain site. Lincoln County has one site that will connect to the Internet back to the Flathead County EOC 911 in Kalispell and then connect to the PSCS system. Valley County leases a T1 circuit for the Opheim site from Scobey to Opheim and then connects to the PSCS system. Flathead County has one site that uses the Internet with connectivity back to the Flathead EOC 911 and then to the PSCS system.

**Motorola Trunking Zone Controllers;** The Zone controllers for the Motorola Trunking system, located in Richland County Law & Justice Building in Sidney and Helena at the Lewis & Clark County Law Enforcement Center, are connected to the Trunking sites and also the Motorola MCC7500 and Gold Elite Dispatch centers. The Motorola System also requires connectivity of the two Zone controllers with four T1 circuits for seamless statewide use of the Trunking system. A redundant path for the four T1 circuits required for the two Zone controllers will be complete with the completion of the Southern path of the PSCS Microwave system from Sidney to Helena.

Both Zone Controllers currently use T1 circuits from the Controllers to Motorola for monitoring of the Controllers 24/7. These T1's are leased circuits.

**Lewis & Clark County and Helena 911;** The MCC 7500 Motorola Dispatch Console has a T1 for connectivity to the Zone Controller. Redundant circuits are mapped for the Dispatch's use. This Dispatch equipment will use an Ethernet VLAN through the PSCS microwave system when upgrades are finished.

**Montana Highway Patrol Dispatch;** The Highway Patrol's Gold Elite Dispatch Console uses nine T1 circuits on the PSCS System to the Helena Zone Controller for Trunking System control.

**Flathead County EOC and 911 Dispatch;** Flathead County uses two T1 circuits on the PSCS System to the Helena Zone Controller.

**Hill County Sheriff Dispatch;** Hill County uses two T1 circuits on the PSCS microwave system to the Helena Zone Controller.

**Blaine County Sheriff Dispatch;** Blaine County uses one T1 circuit on the PSCS microwave system to the Helena Zone Controller.

**Tri County – Lewistown 911 Dispatch;** Tri County – Lewistown 911 uses two T1 circuits on the PSCS microwave system to the Helena Zone Controller.

**Great Falls 911 Dispatch;** Great Falls 911 Dispatch uses two T1 circuits on the PSCS microwave system to the Helena Zone Controller.

**Gallatin County 911 Dispatch;** Gallatin 911 Dispatch uses two T1 circuits on the PSCS microwave system and has two leased T1 circuits to the Helena Zone controller.

**Butte Silverbow 911 Dispatch;** Butte Silverbow 911 Dispatch uses two T1 circuits on the PSCS microwave system to the Helena Zone Controller.

**Flathead County;** Flathead County uses twelve T1 circuits on the PSCS microwave system for conventional Public Safety LMR (land mobile radio).

**Gallatin County;** Gallatin County uses twelve T1 circuits on the PSCS microwave system for conventional Public Safety LMR.

**City of Bozeman;** Bozeman uses a T1 circuit on the PSCS microwave system for conventional Public Safety LMR.

**Roosevelt County;** Roosevelt County uses 56 T1 circuits on the PSCS microwave system for conventional Public Safety LMR and County uses.

**Richland County;** Richland County uses four T1 circuits on the PSCS microwave system for conventional Public Safety LMR.

**Butte Silverbow County;** Butte Silverbow County uses a T1 circuit on the PSCS microwave system for conventional Public Safety LMR.

**Beaverhead County;** Beaverhead County has six T1 circuits mapped on the PSCS microwave system for future Public Safety LMR.

**Lewis & Clark County;** Lewis & Clark County uses and has mapped fifty six T1 circuits on the PSCS microwave system for Public Safety LMR and County requirements.

**Mobile Data Radio;** Mobile Data Radio uses six T1 circuits on the PSCS microwave system for Public Safety LMR.

**Montana Highway Patrol;** Montana Highway Patrol uses DSO circuits on ten T1 drop and insert circuits on the PSCS microwave system for Public Safety LMR.

**Montana Department of Transportation;** Montana Department of Transportation uses DSO circuits on Drop and insert and single T1 circuits (four T1 circuits) on the PSCS microwave system for Public Safety LMR.

**Montana Air National Guard:** Montana Air National Guard use two T1 circuits to Antoine Butte and Glasgow on the PSCS microwave system for LMR. Eight T1 circuits are used on the PSCS microwave system to Fort Harrison.

**Montana National Guard;** Montana National Guard uses sixteen T1 circuits on the PSCS microwave system from the Great Falls Armory to Fort Harrison. The Guard uses and has mapped twenty eight T1 circuits on the PSCS microwave system for use at Armories across the state.

**Malstrom Air Force Base;** Malstrom Air Force Base uses eighteen T1 circuits on the PSCS microwave system for the USAF Trunking System connectivity in Central Montana.

**FBI;** FBI uses DSO circuits on ten drop and insert and dedicated T1 circuits on the PSCS microwave system for Public Safety LMR.

**ICE:** ICE has three T1 circuits mapped on the PSCS microwave system for Public Safety LMR.